

Projects for Good

The Assessment of Construction Plants and Equipment Management

The resilience of a design is transformed by its construction into a real-life structure which is completed by thorough labour and material management of plant and equipment resources.

The selection of plant and equipment is of great importance in terms of its transportation to and from the project site during this period and a variety of assessments, safety considerations and decisions must be made to ensure the effective use on a project site. Inefficient plant and equipment management will result in various challenges such as delays, and the unproductive use of machinery. Conversely, if efficiently managed the challenges due to delays and monetary losses will be reduced or minimized.

This research will discuss the theoretical background based on the findings of a comprehensive literature review of published materials. Further, data from a questionnaire survey carried out among construction professionals, will be analysed statistically in order to make a final recommendation. The conclusions drawn will be

based on current issues such as maintenance and equipment downtime, equipment optimization, equipment productivity, automation, competent operators, new innovation and environmentally sustainable equipment and machinery controls.

The focus of this research will be to facilitate future research development to contribute to a progressive pool of knowledge considering the sustainability of construction plant and equipment and their potential functionality for future reference.

The implication and limitation anticipated in this research will be based on new technological advancement, environmental sustainability and availability of financial resources. Once the issues are overcome construction plant and equipment management will perform to its utmost and facilitate more reliable and safely operated plant and equipment management.



Project by Adebajji Bademosi
BSc Construction management Student

